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PN - DE10041891 A 20010419
PD - 2001-04-19
PR - DE20001041891 20000825; DE19991049030 19991011
OPD - 1999-10-11
TI - Purification device has devices for determining reductant amount
intermediately stored in reductant storage and nitrogen oxide
reducing catalyst
AB - A purification device comprises a reductant producing catalyst (K1)
and a reductant storage and nitrogen oxide reducing catalyst (K2),
a control unit (3), and devices for determining the reductant amount
intermediately stored in the reductant storage and nitrogen oxide
reducing catalyst. A purification device comprises a reductant
producing catalyst (K1) and a reductant storage and nitrogen oxide
reducing catalyst (K2), a control unit (3) for controlling the
operation of the engine (1) in a lean burn or rich burn state, and
devices for determining the reductant amount intermediately stored
in the reductant storage and nitrogen oxide reducing catalyst. The
control unit is structured so that it reverses the engine between
lean and rich burn states depending on the amount of reductant
intermediately stored. Preferred Features: A NOx/NH3 sensor is
arranged downstream of the reductant storage and nitrogen oxide
reducing catalyst. The control unit is reversed to the lean burn state
if the intermediately stored reductant amount exceeds a prescribed
upper threshold value during the rich burn phase.
IN - WEIRICH MARKO (DE); LEHRER HORST (DE)
PA - DAIMLER CHRYSLER AG (DE)
ICO - R01N7/02
EC - F01N3/08B10 ; B01D53/94F2D ; B01D53/94Y ; F01N3/08B2
IC - B01D53/88 ; B01D53/94 ; F01N3/08

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TI - Purification device has devices for determining reductant amount
intermediately stored in reductant storage and nitrogen oxide
reducing catalyst
PR - DE19991049030 19991011
PN - DE10041891 A1 20010419 DW200136 B01D53/88 007pp
PA - (DAIM) DAIMLERCHRYSLER AG
IC - B01D53/88 ; B01D53/94 ; F01N3/08
IN - LEHRER H; WEIRICH M
AB - DE10041891 NOVELTY - A purification device comprises a

reductant producing catalyst (K1) and a reductant storage and nitrogen oxide reducing catalyst (K2), a control unit (3), and devices for determining the reductant amount intermediately stored in the reductant storage and nitrogen oxide reducing catalyst.

- DETAILED DESCRIPTION - A purification device comprises a reductant producing catalyst (K1) and a reductant storage and nitrogen oxide reducing catalyst (K2), a control unit (3) for controlling the operation of the engine (1) in a lean burn or rich burn state, and devices for determining the reductant amount intermediately stored in the reductant storage and nitrogen oxide reducing catalyst. The control unit is structured so that it reverses the engine between lean and rich burn states depending on the amount of reductant intermediately stored.
- Preferred Features: A NOx/NH3 sensor is arranged downstream of the reductant storage and nitrogen oxide reducing catalyst. The control unit is reversed to the lean burn state if the intermediately stored reductant amount exceeds a prescribed upper threshold value during the rich burn phase.
- USE - For purification of IC engine exhaust gases.
- ADVANTAGE - Improved purification is achieved.
- DESCRIPTION OF DRAWING(S) - The drawing shows a schematic view of the purification device.
- Engine 1
- Control unit 3
- Reductant producing catalyst K1
- Reductant storage and nitrogen oxide reducing catalyst K2
- (Dwg.1/2)

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